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	Application No.	Applicant(s)	<u> </u>
N. d C. A.H	09/829,305	RIGALI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Karla Moore	1763	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatior GHTS. This application is subject to	plication. If not includ will be mailed in due	ed course. <b>THIS</b>
1.   This communication is responsive to the amendment filed 4	<u>4/7/04</u> .		
2. ⊠ The allowed claim(s) is/are 28-45,49 and 50.			
3. The drawings filed on <u>09 April 2001</u> are accepted by the Ex	caminer.		
<ul> <li>4. Acknowledgment is made of a claim for foreign priority un</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	been received. been received in Application No	<del></del>	ntion from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply ENT of this application.	complying with the re	quirements
5. A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give	tted. Note the attached EXAMINER s reason(s) why the oath or declara	'S AMENDMENT or Nation is deficient.	IOTICE OF
6. CORRECTED DRAWINGS ( as "replacement sheets") mus	t be submitted.		
(a) ☐ including changes required by the Notice of Draftsperso		948) attached	
1)  hereto or 2)  to Paper No./Mail Date			
(b) including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the C	Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the drawing he header according to 37 CFR 1.121(	ngs in the front (not the	back) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F</li> </ol>	sit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGIC,	must be submitted. I AL MATERIAL.	Note the
Attachment(s)  1.   Notice of References Cited (PTO-892)	5.	atent Application (PT	O-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary		
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date</li> </ol>	Paper No./Mail Dat B), 7. ☐ Examiner's Amendr		
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme 9. □ Other	ent of Reasons for Allo	wance

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## **DETAILED ACTION**

1. Examiner recognizes that the foreign priority documents were incorrectly acknowledged in the previous action. This has been corrected in the current action. See the Notice of Allowability.

## Allowable Subject Matter

- 2. Claims 28-45 and 49-50 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach or fairly suggest a system for the plasma treatment of a plurality of parts at one time, comprising: a reaction chamber having an open bottom; a chamber base sealingly engageable with said bottom of said reaction chamber to form a treatment chamber; a lifting device coupled with said reaction chamber and operable to lift said reaction chamber form said chamber base; a lifting device coupled with said reaction chamber and operable to lift said reaction chamber from said chamber base; a guide along which each of the plurality of parts may be moved from a position outside said treatment chamber to a plurality of treatment positions within said treatment chamber, a transfer mechanism operable to transfer the plurality of parts along said guide form said position outside of said treatment chamber to said plurality of treatment positions within said treatment chamber when said reaction chamber is disengaged from said chamber base; a plasma-generating device operable to produce a plasma within said treatment chamber for treating the plurality of parts when positioned in said plurality of treatment positions; and an electronic control system that controls said transfer mechanism for transferring the plurality of parts to said plurality of treatment positions.
- 4. The closest pieces of art are Bhat, Uehara et al., and Beach et al. Bhat teaches the majority of the claimed invention, but fails to teach a guide along which each of the plurality of parts may be moved from a position outside said treatment chamber to a plurality of treatment positions within said treatment chamber. Similarly, Uehara et al. and Beach et al. teach the majority of the claimed invention; however, each of these references fails to fairly teach or suggest treatment of more than one substrate at a time. In fact, they teach against treatment of a plurality of substrates. No other piece of

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prior art was located that taught each of these recitations or that provided valid motivation for the combination of these features with those of the aforementioned references. Examiner notes that the arguments against the combination of Bhat and Ciardella et al. were not convincing, but the amendments to the claims make this issue mute, as Bhat no longer reads on the claimed invention.

- The following is an examiner's statement of reasons for allowance for claims 37-45: The prior art fails to teach or fairly suggest: A system for the plasma treatment of a plurality of parts at one time, comprising: a reaction chamber having an open bottom; a chamber base sealingly engageable with said bottom of said reaction chamber to form a treatment chamber; a lifting device coupled with said reaction chamber and operable to lift said reaction chamber from said chamber base; a plasma-generating device operable to produce plasma within said treatment chamber for treating the plurality of parts, said plasma-generating device including a plurality of vertically spaced horizontal electrodes; a plurality of vertically spaced guides forming multiple levels along which the plurality of parts may be moved to a plurality of treatment positions within the treatment chamber, each of said plurality of guides associated with a respective one of said plurality of horizontal electrodes; and a transfer mechanism operable to transfer the plurality of parts along said plurality of guides to said plurality of treatment stations.
- 6. For claims 49-50, the prior art fails to teach of fairly suggest: A system for the plasma treatment of a part, comprising: a reaction chamber having an open bottom; a chamber base sealingly engageable with said bottom of said reaction chamber to form a treatment chamber; a lifting device coupled with said reaction chamber and operable to lift said reaction chamber from said chamber base; a guide along which the part may be moved; an input carrier adapted to hold the part adjacent to said guide prior to transfer into the treatment chamber; an output carrier adapted to receive the part from said guide following plasma treatment; a transfer mechanism operable to transfer the part along said guide when said reaction chamber is disengaged from said chamber is disengaged from said base; and a plasma-generating device operable to produce plasma within said treatment chamber for the part.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karla Moore whose telephone number is 571.272.1440. The examiner can normally be reached on Monday-Friday, 8:30am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Mills can be reached on 571.272.1439. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

km 15 June 2004 P. Wassanzadeh Parviz Hassanzadeh Primary Examiner Art Unit 1763